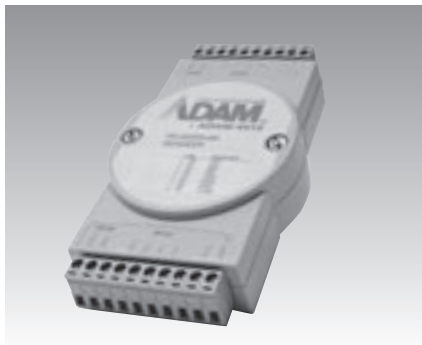# ADAM-4510
ADAM-4520/4522
ADAM-4521

RS-422/485 Repeater

RS-232 to RS-422/485 Converters
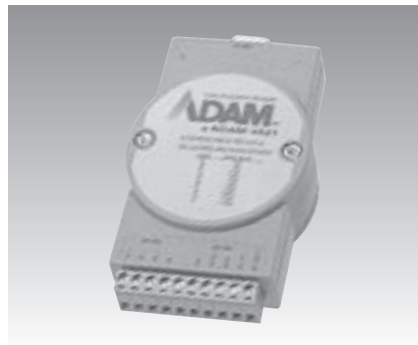
Addressable RS-422/485 to RS-232 Converter

ADAM-4510   CE   FM

ADAM-4520/4522   CE   FM

ADAM-4521   CE   FM

Specifications

General

- **Connectors** — 2 x Plug-in terminal blocks (#14 ~ 22 AWG)
- **Isolation Protection** — 3000 V_{DC} (ADAM-4510S only)
- **Power Consumption** — 1.4 W @ 24 V_{DC}

Communications

- **Input** — RS-485 (2-wire) or RS-422 (4-wire)
- **Output** — RS-485 (2-wire) or RS-422 (4-wire).
- **Speed Modes (bps)** — 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, RTS control and RS-422. (switchable)

Environment

- **Operating Temperature**
  ADAM-4510/4510S: -10 ~ 70° C (14 ~ 158° F)
  ADAM-4510I: - 40 ~ 85° C (-40 ~ 185° F)
- **Storage Temperature**
  ADAM-4510/4510S: - 25 ~ 85° C (-13 ~ 185° F)
  ADAM-4510I: - 40 ~ 85° C (-40 ~ 185° F)

Specifications

General

- **Connectors** — 1 x Plug-in terminal block (#14 ~ 22 AWG) (RS-422, RS-485)
  1 x DB9-F (RS-232)
- **Isolation Protection** — 3000 V_{DC} (4520 only)
- **Power Consumption** — 1.2 W @ 24 V_{DC}

Communications

- **Input** — RS-232 (4-wire)
- **Output** — RS-485 (2-wire) or RS-422 (4-wire).
- **Speed Modes (bps)** — 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, RTS control and RS-422. (switchable)

Environment

- **Operating Temperature**
  ADAM-4520/4522: - 10 ~ 70° C (14 ~1 58° F)
  ADAM-4520I: - 40 ~ 85° C (-40 ~ 185° F)
- **Storage Temperature**
  ADAM-4520/4522: - 25 ~ 85° C (-13 ~ 185° F)
  ADAM-4520I: - 40 ~ 85° C (-40 ~ 185° F)

Specifications

General

- **Connectors** — 1 x Plug-in terminal block (#14 ~ 22 AWG) (RS-422, RS-485)
  1 x DB9-F (RS-232)
- **Power Consumption** — 1.0 W @ 24 V_{DC}

Communications

- **Built-in microprocessor and watchdog timer**
- **RS-232 and 485 can be set to different baudrates**
- **RS-485 surge protection and automatic RS-485 data flow control**
- **Software configurable to either addressable or non-addressable mode**
- **Speed Modes (bps)** — 300, 600, 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k (software configurable)

Environment

- **Operating Temperature** — - 10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** — - 25 ~ 85°C (-13 ~ 185° F)

Common Specifications

General

- **Dimensions (W x H x D)** — 70 x 122 x 30 mm
- **Enclosure** — ABS + PC
- **Mounting** — DIN 35 rail, stack, wall
- **Power Input** — Unregulated 10 ~ 30 V_{DC} w/power reversal protection

Environment

- **Humidity** — 5 ~ 95% RH

Ordering Information

- **ADAM-4510** — RS-422/RS-485 Repeater
- **ADAM-4510S** — Isolated RS-422/RS-485 Repeater
- **ADAM-4510I** — Robust Isolated RS-422/485 Repeater
- **ADAM-4520** — Isolated RS-232 to RS-422/RS-485 Converter
- **ADAM-4520I** — Robust Isolated RS-232 to RS-422/485 Converter
- **ADAM-4521** — Addressable RS-422/485 to RS-232 Converter
- **ADAM-4522** — RS-232 to RS-422/485 Converter

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